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SECTION 1: Identification of the substance/mixture and of the company**Product Identifier**

Product Name: PowerNox™ 1024
Chemical Name: 2',3-Bis[3-[3,5-di-tert-butyl-4hydroxyphenyl]
Propionohydrazide
CAS-No.: 32687-78-8

Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified For industrial use

Details of the supplier of the safety data sheet

Company Tintoll Performance Materials Co., Ltd.
A-703, No. 50 Jialingjiang East St, Nanjing, China
Email: SDS@ Tintoll.com

Emergency Telephone Number: +86-25-8468-0091

SECTION 2: Hazardous identification**Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Not a dangerous substance according to GHS.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements

The product does not need to be labeled in accordance with EC directives or respective national laws.

Other hazards - none

SECTION 3: Composition/information on ingredients**Substances**

Molecular Formula: $C_{34}H_{52}N_2O_4$

Molecular Weight : 552.8 g/ mol

Component

**2',3-Bis[3-[3,5-di-tert-butyl-4hydroxyphenyl]
Propionohydrazide** **Concentration**
99 % min (other impurities &
unreacted component 1%)

CAS-No. 32687-78-8

EC-No. 251-156-3

SECTION 4: First aid measures**Description of first aid measures****General advice**

Remove contaminated clothing.

If inhaled

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

In case of skin contact

Wash thoroughly with soap and water. If irritation develops, seek medical attention.

In case of eye contact

Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.

If swallowed

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

Most important symptoms and effects, both acute and delayed

No data available.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**

Dry powder, foam.

Special hazards arising from the substance or mixture

Harmful vapours Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for firefighters

Fire fighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

SECTION 6: Accidental release measures

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Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing.

Environmental precautions

Contain contaminated water/fire fighting water. Do not discharge into drains/surface waters/groundwater.

Methods and materials for containment and cleaning up

Avoid raising dust. For small amounts: Pick up with suitable appliance and dispose of. For large amounts:

Contain with dust binding material and dispose of.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Closed containers should only be opened in well-ventilated areas.

Information about protection against explosions and fires:

Avoid dust formation. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed and dry; store in a cool place.

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice.

Eye/face protection

Safety glasses with side-shields

Hands protection

Chemical resistant protective gloves.

Body Protection

Wear chemical resistant gloves and protective clothing.

Respiratory Protection

Observe OSHA regulations for respirator use (29 CFR 1910.134).

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Form: White to slightly yellowish crystalline powder
Odour	Odourless
Odour Threshold	no data available
pH :	6 (1 %(m), 20 - 25 °C) (as suspension)
Melting point/freezing range:	221 - 232 °C
Initial boiling point and boiling range	no data available
Flash Point:	> 180 °C
Evaporation rate	no data available
Flammability (solid, gas) Upper/lower flammability or explosive limits	no data available
Vapour pressure	approx. 1.33 Pa (200 °C)
Vapour density	no data available
Relative density	no data available
Water solubility	< 0.01 mg/l (20 °C)
Partition coefficient: noctanol/ Water	> 6 (20 °C)
Autoignition temperature	380 °C
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

Other safety information

SMILES

O=C(NNC(=O)CCc1cc(c(c(c1)C(C)(C)C)O)C(C)(C)C)CCC(=O)CCc1cc(c(c(c1)C(C)(C)C)O)C(C)(C)C

Inch-I

1/C34H52N2O4/c1-31(2,3)23-17-21(18-24(29(23)39)32(4,5)6)13-15-27(37)35-36-28(38)16-14-22-19-25(33(7,8)9)30(40)26(20-22)34(10,11)12/h17-20,39-40H,13-16H2,1-12H3,(H,35,37)(H,36,38)

SECTION 10: Stability And Reactivity

Tintoll - A part of SINOPCC group.

Reactivity

No data available

Chemical stability

No data available

Possibility of hazardous reactions

The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.

Conditions to avoid

Avoid electro-static discharge.

Incompatible materials

Strong oxidizing agents, strong bases, strong acids

Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

> 350 °C

SECTION 11: Toxicological Information**Information on toxicological effects****Acute toxicity****Oral**

Type of value: LD50

Species: Rat

Value: > 5,000 mg/kg. (OECD Guideline 401)

Skin corrosion/irritation

Species: Rat

Result: non-irritant

Method: OECD Guideline 404

Serious eye damage/eye irritation

Species: Rabbit

Result: non-irritant

Method: OECD Guideline 405

Respiratory or skin sensitization

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

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Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

IARC

No data available.

Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity – repeated exposure

No data available.

Aspiration hazard

No data available

Additional Information

RTECS: No data available

SECTION 12: Ecological Effects**Toxicity**

No data available.

Fish

Acute: Fish/LC50 (96 h): > 100 mg/l

Microorganisms

DIN EN ISO 8192-OECD 209-88/302/EEC,P. C activated sludge/EC50 (3 h): > 100 mg/l

Persistence and degradability

Test method: OECD 301B; ISO 9439; 92/69/EEC, C.4C

Evaluation: Not readily biodegradable (by OECD criteria).

Bio accumulative potential

OPPTS 850.1730 (EPA Guideline)(60 d) Bio concentration factor 3.1 - 8.4

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available

Other adverse effects

Do not discharge product into the environment without control.

SECTION 13: Disposal considerations

Waste treatment methods

Product

Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations.

Contaminated packaging

Dispose of in accordance with national, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

SECTION 14: Transport Information

UN number

ADR/RID: -

IMDG: -

IATA: -

UN proper shipping name

ADR/RID: Not classified as a dangerous good under transport regulations

IMDG: Not classified as a dangerous good under transport regulations

IATA: Not classified as a dangerous good under transport regulations

Transport hazard class(es)

ADR/RID:-

IMDG: -

IATA: -

Packaging group

ADR/RID: -

IMDG: -

IATA: -

Environmental hazards

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

Special precautions for user

No data available

SECTION 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

Chemical Safety Assessment

No data available

SECTION 16: Other Information

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Further information

It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.